AmpFℓSTR® COfiler® PCR Amplification Kit

Product P/N 4305246
Insert P/N 4305253 REV G
Printed in USA

Applied Biosystems

For Research, Forensic, or Paternity Use Only.
Not for use in diagnostic procedures.

List of Kit Components - Sufficient for 100 Tests

Reagent	Volume	Description
AmpFℓSTR® PCR Reaction Mix	1.1 mL/tube	2 tubes of PCR Reaction Mix containing $MgCl_2$, dATP, dGTP, dCTP, and dTTP, Bovine Serum Albumin, and 0.05% sodium azide in buffer and salt. Store at 2°C to 8°C.
AmpFℓSTR® COfiler® Primer Set	1.1 mL	1 tube containing locus specific 5-FAM™, JOE™ and NED™ dye- labeled and unlabeled primers in buffer that amplify the STR loci D3S1358, D16S539, TH01, TPOX, CSF1PO, D7S820, and the gender marker, Amelogenin. Store at 2°C to 8°C, protected from light.
AmpliTaq Gold® DNA Polymerase	0.05 mL/tube	2 tubes of enzyme with an activity of 5 U/µL. Store at -15°C to -25°C.
AmpFℓSTR® Control DNA 9947A	0.3 mL	1 tube containing 0.10 ng/mL human cell line DNA in 0.05% sodium azide and buffer. The genotype of this female DNA is D3S1358 14,15; D16S539 11,12; TH01 8,9.3; TPOX 8,8; CSF1PO 10,12; D7S820 10,11. Store at 2°C to 8°C.
AmpFℓSTR® COfiler® Allelic Ladder	50 µL	1 tube of AmpFℓSTR® COfiler® Allelic Ladder containing the following amplified alleles: D3S1358 alleles 12 to 19 (5-FAM™ dye); D16S539 alleles 5, 8-15 (5-FAM); Amelogenin alleles X, Y, (JOE™ dye); TH01 alleles 5 to 10 (including the 9.3 allele, JOE dye); TPOX alleles 6 to 13 (JOE); CSF1PO alleles 6 to 15 (JOE dye); D7S820 alleles 6 to 15 (NED™ dye). The allelic ladder contains PCR product - do NOT amplify. To avoid contamination, store the allelic ladder separate from the other kit contents and unamplified DNA. Store at 2°C to 8°C, protected from light.

CAUTION CHEMICAL HAZARD. AmpliTaq Gold® DNA Polymerase may cause eye and skin irritation. Exposure may cause discomfort if swallowed or inhaled. Read the MSDS, and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves.

Caution: The AmpliTaq Gold® DNA Polymerase should be removed from the kit upon receipt and stored at -15°C to -25°C

Caution: Reagents used for amplification must be isolated from any source of contaminating DNA, especially from previously amplified AmpFℓSTR® PCR products and the AmpFℓSTR® Allelic Ladders.

Caution: The AmpFℓSTR® COfiler® Primer Set and the Allelic Ladder contain primers that are labeled with a light sensitive dye. These reagents should be stored protected from light and not left exposed on the laboratory benchtop.

Caution: Sodium azide is used as a preservative in some reagents. It can react with lead and copper plumbing to form explosive metal azides. On disposal of the reagent, flush with large volume of water to prevent azide build-up.

To obtain the optimized amplification and typing results, it is critical that the protocols in the AmpFℓSTR® Profiler Plus® Kit User's Manual (P/N 4303501) are followed. The user's manual is purchased separately (see Required Materials).

Required Materials - Not Included

Material	P/N	Description
AmpFℓSTR® COfiler® User Bulletin	4305469	The AmpFℓSTR® COfiler® User Bulletin contains the supporting documentation for the AmpF STR® COfiler® Kit. Included is information on the kit characteristics, a summary of results and interpretation issues, and forensic validation and population genetics data.
AmpFℓSTR® Profiler Plus® PCR Amplification Kit User's Manual	4303501	The AmpFℓSTR® Profiler Plus® PCR Amplification Kit User's Manual contains all the necessary typing protocols for use with the AmpFℓSTR® COfiler® PCR Amplification Kit. Included are protocols for amplification in the Applied Biosystems DNA Thermal Cycler 480 and GeneAmp® PCR Systems 9600 and 2400, and detection on the ABI PRISM® 377 DNA Sequencer and ABI PRISM® 310 Genetic Analyzer. To obtain optimal results it is critical that the procedures detailed in the user's manual are followed.
GeneScan™ 500 ROX™ Internal Lane Size Standard	401734	2 tubes each containing 200 µL of size standard. Loading buffer is included as a separate tube.

Performance Characteristics

The AmpFℓSTR® COfiler® PCR Amplification Kits are developed and manufactured by Applied Biosystems. Each lot of AmpFℓSTR® COfiler® Kits are carefully tested by Applied Biosystems to ensure that the kits perform according to specifications and are free from interfering contaminants.

The user of the AmpFℓSTR® COfiler® Kits will be able to amplify and type two nanograms of AmpFℓSTR® Control DNA 9947A when using the reagents provided in the kits and following the protocols described in the AmpFℓSTR® Profiler Plus® User's Manual on an ABI PRISM® instrument. The recommended range of input sample DNA is approximately 1.0 - 2.5 ng. At Applied Biosystems, the kit components have been used successfully to type samples containing less than one nanogram of human DNA.

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NOTICE TO PURCHASER: LIMITED LICENSE

Use of the AmpFℓSTR® COfiler® PCR Amplification kit is covered by one or more of the following US patents and corresponding patent claims outside the US: 5,079,352, 5,789,224, 5,618,711, 6,127,155, 5,677,152 (claims 1-23 only), and 5,773,258 (claims 1 and 6 only), and claims outside the US corresponding to US Patent No. 4,889,818. The purchase of this product includes a limited, non-transferable immunity from suit under the foregoing patent claims for using only this amount of product solely in forensic and paternity testing, including reporting results of purchaser's activities for a fee or other commercial consideration, and also for the purchaser's own internal research. No right under any other patent claim is conveyed expressly, by implication, or by estoppel. Further information on purchasing licenses may be obtained by contacting the Director of Licensing, Applied Biosystems, 850 Lincoln Centre Drive, Foster City, California 94404, USA.

This product is covered by U.S. Patent No. 5,364,759 owned by Baylor College of Medicine and is sold under license from Baylor College of Medicine.

Not for re-sale.

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Product Insert
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